RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/519,336_

Source: _PU_

Date Processed by STIC: _1/26/06_

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PCT

RAW SEQUENCE LISTING   DATE: 01/26/2006
PATENT APPLICATION: US/10/519,336   TIME: 09:07:01

Input Set : F:\G-194US04PCT-Subst-Seq-List.txt
Output Set: N:\CRF4\01262006\J519336.raw

```
 3 <110> APPLICANT: Daniel Cohen,
 4        Ilya Chumakov,
 5        Marta Blumenfeld,
 6        Sanober Shaikh,
 7        Marta Palicio-Barron,
 8        Hadi Abderrahim,
 9        Pascale Grel
11 <120> TITLE OF INVENTION: USE OF PP2A PHOSPHATASE MODULATORS IN THE TREATMENT OF
MENTAL DISORDERS
13 <130> FILE REFERENCE: G-194US04PCT
15 <140> CURRENT APPLICATION NUMBER: US 10/519,336
16 <141> CURRENT FILING DATE: 2004-12-22
18 <150> PRIOR APPLICATION NUMBER: US 60/391,359
19 <151> PRIOR FILING DATE: 2002-06-25
21 <160> NUMBER OF SEQ ID NOS: 47
23 <170> SOFTWARE: PatentIn version 3.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 1932
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo sapiens
30 <220> FEATURE:
31 <221> NAME/KEY: CDS
32 <222> LOCATION: (1)..(1932)
34 <400> SEQUENCE: 1
35 atg gtg cag aag tcg cgc aac ggc ggc gta tac ccc ggc ccg agc ggg      48
36 Met Val Gln Lys Ser Arg Asn Gly Gly Val Tyr Pro Gly Pro Ser Gly
37 1               5                   10                  15
39 gag aag aag ctg aag gtg ggc ttc gtg ggg ctg gac ccc ggc gcg ccc      96
40 Glu Lys Lys Leu Lys Val Gly Phe Val Gly Leu Asp Pro Gly Ala Pro
41              20                  25                  30
43 gac tcc acc cgg gac ggg gcg ctg ctg atc gcc ggc tcc gag gcc ccc     144
44 Asp Ser Thr Arg Asp Gly Ala Leu Leu Ile Ala Gly Ser Glu Ala Pro
45          35                  40                  45
47 aag cgc ggc agc atc ctc agc aaa cct cgc gcg ggc ggc gcg ggc gcc     192
48 Lys Arg Gly Ser Ile Leu Ser Lys Pro Arg Ala Gly Gly Ala Gly Ala
49      50                  55                  60
51 ggg aag ccc ccc aag cgc aac gcc ttc tac cgc aag ctg cag aat ttc     240
52 Gly Lys Pro Pro Lys Arg Asn Ala Phe Tyr Arg Lys Leu Gln Asn Phe
53 65                  70                  75                  80
55 ctc tac aac gtg ctg gag cgg ccg cgc ggc tgg gcg ttc atc tac cac     288
56 Leu Tyr Asn Val Leu Glu Arg Pro Arg Gly Trp Ala Phe Ile Tyr His
57              85                  90                  95
59 gcc tac gtg ttc ctc ctg gtt ttc tcc tgc ctc gtg ctg tct gtg ttt     336
60 Ala Tyr Val Phe Leu Leu Val Phe Ser Cys Leu Val Leu Ser Val Phe
```

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Input Set : **F:\G-194US04PCT-Subst-Seq-List.txt**
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61           100              105              110
63 tcc acc atc aag gag tat gag aag agc tcg gag ggg gcc ctc tac atc       384
64 Ser Thr Ile Lys Glu Tyr Glu Lys Ser Ser Glu Gly Ala Leu Tyr Ile
65         115              120              125
67 ctg gaa atc gtg act atc gtg gtg ttt ggc gtg gag tac ttc gtg cgg       432
68 Leu Glu Ile Val Thr Ile Val Val Phe Gly Val Glu Tyr Phe Val Arg
69     130              135              140
71 atc tgg gcc gca ggc tgc tgc tgc cgg tac cgt ggc tgg agg ggg cgg       480
72 Ile Trp Ala Ala Gly Cys Cys Cys Arg Tyr Arg Gly Trp Arg Gly Arg
73 145              150              155              160
75 ctc aag ttt gcc cgg aaa ccg ttc tgt gtg att gac atc atg gtg ctc       528
76 Leu Lys Phe Ala Arg Lys Pro Phe Cys Val Ile Asp Ile Met Val Leu
77              165              170              175
79 atc gcc tcc att gcg gtg ctg gcc gcc ggc tcc cag ggc aac gtc ttt       576
80 Ile Ala Ser Ile Ala Val Leu Ala Ala Gly Ser Gln Gly Asn Val Phe
81         180              185              190
83 gcc aca tct gcg ctc cgg agc ctg cgc ttc ctg cag att ctg cgg atg       624
84 Ala Thr Ser Ala Leu Arg Ser Leu Arg Phe Leu Gln Ile Leu Arg Met
85         195              200              205
87 atc cgc atg gac cgg cgg gga ggc acc tgg aag ctg ctg ggc tct gtg       672
88 Ile Arg Met Asp Arg Arg Gly Gly Thr Trp Lys Leu Leu Gly Ser Val
89     210              215              220
91 gtc tat gcc cac agc aag gag ctg gtc act gcc tgg tac atc ggc ttc       720
92 Val Tyr Ala His Ser Lys Glu Leu Val Thr Ala Trp Tyr Ile Gly Phe
93 225              230              235              240
95 ctt tgt ctc atc ctg gcc tcg ttc ctg gtg tac ttg gca gag aag ggg       768
96 Leu Cys Leu Ile Leu Ala Ser Phe Leu Val Tyr Leu Ala Glu Lys Gly
97              245              250              255
99 gag aac gac cac ttt gac acc tac gcg gat gca ctc tgg tgg ggc ctg       816
100 Glu Asn Asp His Phe Asp Thr Tyr Ala Asp Ala Leu Trp Trp Gly Leu
101         260              265              270
103 atc acg ctg acc acc att ggc tac ggg gac aag tac ccc cag acc tgg      864
104 Ile Thr Leu Thr Thr Ile Gly Tyr Gly Asp Lys Tyr Pro Gln Thr Trp
105         275              280              285
107 aac ggc agg ctc ctt gcg gca acc ttc acc ctc atc ggt gtc tcc ttc      912
108 Asn Gly Arg Leu Leu Ala Ala Thr Phe Thr Leu Ile Gly Val Ser Phe
109     290              295              300
111 ttc gcg ctg cct gca ggc atc ttg ggg tct ggg ttt gcc ctg aag gtt      960
112 Phe Ala Leu Pro Ala Gly Ile Leu Gly Ser Gly Phe Ala Leu Lys Val
113 305              310              315              320
115 cag gag cag cac agg cag aag cac ttt gag aag agg cgg aac ccg gca      1008
116 Gln Glu Gln His Arg Gln Lys His Phe Glu Lys Arg Arg Asn Pro Ala
117              325              330              335
119 gca ggc ctg atc cag tcg gcc tgg aga ttc tac gcc acc aac ctc tcg      1056
120 Ala Gly Leu Ile Gln Ser Ala Trp Arg Phe Tyr Ala Thr Asn Leu Ser
121         340              345              350
123 cgc aca gac ctg cac tcc acg tgg cag tac tac gag cga acg gtc acc      1104
124 Arg Thr Asp Leu His Ser Thr Trp Gln Tyr Tyr Glu Arg Thr Val Thr
125         355              360              365
```

```
127 gtg ccc atg tac agt tcg caa act caa acc tac ggg gcc tcc aga ctt      1152
128 Val Pro Met Tyr Ser Ser Gln Thr Gln Thr Tyr Gly Ala Ser Arg Leu
129     370             375             380
131 atc ccc ccg ctg aac cag ctg gag ctg ctg agg aac ctc aag agt aaa      1200
132 Ile Pro Pro Leu Asn Gln Leu Glu Leu Leu Arg Asn Leu Lys Ser Lys
133 385             390             395             400
135 tct gga ctc gct ttc agg aag gac ccc ccg ccg gag ccg tct cca agt      1248
136 Ser Gly Leu Ala Phe Arg Lys Asp Pro Pro Pro Glu Pro Ser Pro Ser
137             405             410             415
139 aaa ggc agc ccg tgc aga ggg ccc ctg tgt gga tgc tgc ccc gga cgc      1296
140 Lys Gly Ser Pro Cys Arg Gly Pro Leu Cys Gly Cys Cys Pro Gly Arg
141             420             425             430
143 tct agc cag aag gtc agt ttg aaa gat cgt gtc ttc tcc agc ccc cga      1344
144 Ser Ser Gln Lys Val Ser Leu Lys Asp Arg Val Phe Ser Ser Pro Arg
145             435             440             445
147 ggc gtg gct gcc aag ggg aag ggg tcc ccg cag gcc cag act gtg agg      1392
148 Gly Val Ala Ala Lys Gly Lys Gly Ser Pro Gln Ala Gln Thr Val Arg
149     450             455                 460
151 cgg tca ccc agc gcc gac cag agc ctc gag gac agc ccc agc aag gtg      1440
152 Arg Ser Pro Ser Ala Asp Gln Ser Leu Glu Asp Ser Pro Ser Lys Val
153 465             470             475             480
155 ccc aag agc tgg agc ttc ggg gac cgc agc cgg gca cgc cag gct ttc      1488
156 Pro Lys Ser Trp Ser Phe Gly Asp Arg Ser Arg Ala Arg Gln Ala Phe
157             485             490             495
159 cgc atc aag ggt gcc gcg tca cgg cag aac tca gaa gaa gca agc ctc      1536
160 Arg Ile Lys Gly Ala Ala Ser Arg Gln Asn Ser Glu Glu Ala Ser Leu
161             500             505             510
163 ccc gga gag gac att gtg gat gac aag agc tgc ccc tgc gag ttt gtg      1584
164 Pro Gly Glu Asp Ile Val Asp Asp Lys Ser Cys Pro Cys Glu Phe Val
165     515             520             525
167 acc gag gac ctg acc ccg ggc ctc aaa gtc agc atc aga gcc gtg tgt      1632
168 Thr Glu Asp Leu Thr Pro Gly Leu Lys Val Ser Ile Arg Ala Val Cys
169     530             535             540
171 gtc atg cgg ttc ctg gtg tcc aag cgg aag ttc aag gag agc ctg cgg      1680
172 Val Met Arg Phe Leu Val Ser Lys Arg Lys Phe Lys Glu Ser Leu Arg
173 545             550             555             560
175 ccc tac gac gtg atg gac gtc atc gag cag tac tca gcc ggc cac ctg      1728
176 Pro Tyr Asp Val Met Asp Val Ile Glu Gln Tyr Ser Ala Gly His Leu
177             565             570             575
179 gac atg ctg tcc cga att aag agc ctg cag tcc agg caa gag ccc cgc      1776
180 Asp Met Leu Ser Arg Ile Lys Ser Leu Gln Ser Arg Gln Glu Pro Arg
181             580             585             590
183 ctg cct gtc cag cag ggg aca aga acg ggg tgg gct tct ggg aca aag      1824
184 Leu Pro Val Gln Gln Gly Thr Arg Thr Gly Trp Ala Ser Gly Thr Lys
185             595             600             605
187 ccc act gtg gcc cat ggt ggg agt gca ggg ggt gtg tgg gcg ggg cct      1872
188 Pro Thr Val Ala His Gly Gly Ser Ala Gly Gly Val Trp Ala Gly Pro
189     610             615             620
191 cct ccc cac cca cgt cgg cct ctg tca gct tct gtt gtg tct tca caa      1920
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Input Set : **F:\G-194US04PCT-Subst-Seq-List.txt**
Output Set: **N:\CRF4\01262006\J519336.raw**

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192 Pro Pro His Pro Arg Arg Pro Leu Ser Ala Ser Val Val Ser Ser Gln
193 625             630             635             640
195 agt ctg ttt taa                                                        1932
196 Ser Leu Phe
200 <210> SEQ ID NO: 2
201 <211> LENGTH: 643
202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 2
207 Met Val Gln Lys Ser Arg Asn Gly Gly Val Tyr Pro Gly Pro Ser Gly
208 1             5                 10              15
211 Glu Lys Lys Leu Lys Val Gly Phe Val Gly Leu Asp Pro Gly Ala Pro
212             20              25              30
215 Asp Ser Thr Arg Asp Gly Ala Leu Leu Ile Ala Gly Ser Glu Ala Pro
216             35              40              45
219 Lys Arg Gly Ser Ile Leu Ser Lys Pro Arg Ala Gly Gly Ala Gly Ala
220     50              55              60
223 Gly Lys Pro Pro Lys Arg Asn Ala Phe Tyr Arg Lys Leu Gln Asn Phe
224 65              70              75              80
227 Leu Tyr Asn Val Leu Glu Arg Pro Arg Gly Trp Ala Phe Ile Tyr His
228             85              90              95
231 Ala Tyr Val Phe Leu Leu Val Phe Ser Cys Leu Val Leu Ser Val Phe
232             100             105             110
235 Ser Thr Ile Lys Glu Tyr Glu Lys Ser Ser Glu Gly Ala Leu Tyr Ile
236             115             120             125
239 Leu Glu Ile Val Thr Ile Val Val Phe Gly Val Glu Tyr Phe Val Arg
240     130             135             140
243 Ile Trp Ala Ala Gly Cys Cys Cys Arg Tyr Arg Gly Trp Arg Gly Arg
244 145             150             155             160
247 Leu Lys Phe Ala Arg Lys Pro Phe Cys Val Ile Asp Ile Met Val Leu
248             165             170             175
251 Ile Ala Ser Ile Ala Val Leu Ala Ala Gly Ser Gln Gly Asn Val Phe
252         180             185             190
255 Ala Thr Ser Ala Leu Arg Ser Leu Arg Phe Leu Gln Ile Leu Arg Met
256             195             200             205
259 Ile Arg Met Asp Arg Arg Gly Gly Thr Trp Lys Leu Leu Gly Ser Val
260     210             215             220
263 Val Tyr Ala His Ser Lys Glu Leu Val Thr Ala Trp Tyr Ile Gly Phe
264 225             230             235             240
267 Leu Cys Leu Ile Leu Ala Ser Phe Leu Val Tyr Leu Ala Glu Lys Gly
268             245             250             255
271 Glu Asn Asp His Phe Asp Thr Tyr Ala Asp Ala Leu Trp Trp Gly Leu
272             260             265             270
275 Ile Thr Leu Thr Thr Ile Gly Tyr Gly Asp Lys Tyr Pro Gln Thr Trp
276         275             280             285
279 Asn Gly Arg Leu Leu Ala Ala Thr Phe Thr Leu Ile Gly Val Ser Phe
280     290             295             300
283 Phe Ala Leu Pro Ala Gly Ile Leu Gly Ser Gly Phe Ala Leu Lys Val
284 305             310             315             320
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Input Set : **F:\G-194US04PCT-Subst-Seq-List.txt**
Output Set: **N:\CRF4\01262006\J519336.raw**

```
287 Gln Glu Gln His Arg Gln Lys His Phe Glu Lys Arg Arg Asn Pro Ala
288             325             330             335
291 Ala Gly Leu Ile Gln Ser Ala Trp Arg Phe Tyr Ala Thr Asn Leu Ser
292             340             345             350
295 Arg Thr Asp Leu His Ser Thr Trp Gln Tyr Tyr Glu Arg Thr Val Thr
296         355             360             365
299 Val Pro Met Tyr Ser Ser Gln Thr Gln Thr Tyr Gly Ala Ser Arg Leu
300     370             375             380
303 Ile Pro Pro Leu Asn Gln Leu Glu Leu Leu Arg Asn Leu Lys Ser Lys
304 385             390             395             400
307 Ser Gly Leu Ala Phe Arg Lys Asp Pro Pro Pro Glu Pro Ser Pro Ser
308             405             410             415
311 Lys Gly Ser Pro Cys Arg Gly Pro Leu Cys Gly Cys Cys Pro Gly Arg
312             420             425             430
315 Ser Ser Gln Lys Val Ser Leu Lys Asp Arg Val Phe Ser Ser Pro Arg
316         435             440             445
319 Gly Val Ala Ala Lys Gly Lys Gly Ser Pro Gln Ala Gln Thr Val Arg
320     450             455             460
323 Arg Ser Pro Ser Ala Asp Gln Ser Leu Glu Asp Ser Pro Ser Lys Val
324 465             470             475             480
327 Pro Lys Ser Trp Ser Phe Gly Asp Arg Ser Arg Ala Arg Gln Ala Phe
328             485             490             495
331 Arg Ile Lys Gly Ala Ala Ser Arg Gln Asn Ser Glu Glu Ala Ser Leu
332             500             505             510
335 Pro Gly Glu Asp Ile Val Asp Asp Lys Ser Cys Pro Cys Glu Phe Val
336         515             520             525
339 Thr Glu Asp Leu Thr Pro Gly Leu Lys Val Ser Ile Arg Ala Val Cys
340         530             535             540
343 Val Met Arg Phe Leu Val Ser Lys Arg Lys Phe Lys Glu Ser Leu Arg
344 545             550             555             560
347 Pro Tyr Asp Val Met Asp Val Ile Glu Gln Tyr Ser Ala Gly His Leu
348             565             570             575
351 Asp Met Leu Ser Arg Ile Lys Ser Leu Gln Ser Arg Gln Glu Pro Arg
352             580             585             590
355 Leu Pro Val Gln Gln Gly Thr Arg Thr Gly Trp Ala Ser Gly Thr Lys
356         595             600             605
359 Pro Thr Val Ala His Gly Gly Ser Ala Gly Gly Val Trp Ala Gly Pro
360     610             615             620
363 Pro Pro His Pro Arg Arg Pro Leu Ser Ala Ser Val Val Ser Ser Gln
364 625             630             635             640
367 Ser Leu Phe
371 <210> SEQ ID NO: 3
372 <211> LENGTH: 1878
373 <212> TYPE: DNA
374 <213> ORGANISM: Homo sapiens
376 <220> FEATURE:
377 <221> NAME/KEY: CDS
378 <222> LOCATION: (1)..(1878)
380 <400> SEQUENCE: 3
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/26/2006
PATENT APPLICATION: US/10/519,336   TIME: 09:07:02

Input Set : **F:\G-194US04PCT-Subst-Seq-List.txt**
Output Set: **N:\CRF4\01262006\J519336.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:37; N Pos. 10,5363,8080,10296,14528,15336,15457,16288,16306,16307
Seq#:37; N Pos. 16316,16397,56012,57662
Seq#:37; N Pos. 60402,61110,98207,98208,98209,98210,98211,99743,108055
Seq#:37; N Pos. 109094,109125
Seq#:37; N Pos. 118900,119024,119025,119026,119027,119028,119029,119030
Seq#:37; N Pos. 119031,119032,119033,119034,119035,119036,119037,119038
Seq#:37; N Pos. 119039,119040,119041,119042,119043,119044,119045,119046
Seq#:37; N Pos. 119047,119048,119049,119050,119051,119052,119053,119054
Seq#:37; N Pos. 119055,119056,119057,119058,119059,119060,119061,119062
Seq#:37; N Pos. 119063,119064,119065,119066,119067,119068,119069,119070
Seq#:37; N Pos. 119071,119072,119073,119074,119075,119076,119077,119078
Seq#:37; N Pos. 119079,119080,119081,119082,119083,119084,119085,119086
Seq#:37; N Pos. 119087,119088,119089,119090,119091,119092,119093,119094
Seq#:37; N Pos. 119095,119096,119097,119098,119099,119100,119101,119102
Seq#:37; N Pos. 119103,119104,119105,119106,119107,119108,119109,119110
Seq#:37; N Pos. 119111,119112,119115,119116,119117,119118,119119,119120
Seq#:37; N Pos. 119121,119123,141674,142063,142137,142967,143077,143506
Seq#:37; N Pos. 143587,143629,149079

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32
Seq#:33,34,35,36,39,40,41,42,43,44,45,46,47

VERIFICATION SUMMARY DATE: 01/26/2006
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Input Set : **F:\G-194US04PCT-Subst-Seq-List.txt**
Output Set: **N:\CRF4\01262006\J519336.raw**

```
L:1938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:2122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:5314
L:2214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:8074
L:2288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:10294
L:2428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:14494
L:2456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:15334
L:2460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:15454
L:2486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:16234
L:2488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:16294
L:2490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:16354
L:3810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:55954
L:3866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:57634
L:3958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:60394
L:3980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:61054
L:5244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:98202
L:5304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:99719
L:5584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:108053
L:5618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:109073
L:5944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:118853
L:5948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:118973
L:5950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:119033
L:5952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:119093
L:6726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:141615
L:6740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:142035
L:6742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:142095
L:6770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:142935
L:6774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:143055
L:6788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:143475
L:6790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:143535
L:6792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:143595
L:6980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:149027
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